

# COAL AGE

*With Which Is Consolidated  
The "Colliery Engineer" and "Mines and Minerals"*

## INDEX TO VOLUME 50

January to December, 1945

**NOTE**—The articles and references in this index have been classified under leading subjects or topics, as far as practicable, and should be sought under such heads, which, together with all unclassified matter, are arranged alphabetically. Illustrated articles, or cuts standing by themselves, are indicated by an asterisk (\*). The subject matter of editorials will be found classified under the subject with which they deal and marked (e). Many titles of articles are abbreviated, the aim being to give prominence to important words.

### A

#### Accidents

Accident reduction management's job, Oct. .... 154  
Blood plasma used in mine injury case, Apr. .... 142  
Halving the accident rates by 1950 (e), Apr. .... 85  
Mine collapse kills 5, Apr. .... 149  
Monthly fatalities ..... Jan. 132, Feb. 180, Mar. 162, Apr. 174, May 170, June 174, July 158, Sept. 170, Oct. 176, Nov. 170, Dec. .... 188  
More coal mined in 1944 with fewer accidents, W. W. Adams, Feb. .... 107  
9 die in gassy mine, Feb. .... 172  
U. S. coal-mine fatalities in 1944 by states and months, Mar. .... 162  
Utah blast kills 23, June. .... 164  
Accounting—Machine methods promote efficiency in mine accounting, J. C. McNeil, Nov. .... 109  
Monthly cost data made more usable in consolidated report, J. C. McNeil, July .... 104  
American By-Product Coke Institute formed, Mar. .... 156  
American Institute of Mechanical Engineers, Central Appalachian Section meeting, Sept. .... 144

**American Institute of Mining & Metallurgical Engineers**  
Anthracite engineers cite silt progress, June .... 148  
Anthracite Section meets, Dec. .... 164  
Central Appalachian Section meeting, June .... 138  
Pennsylvania Anthracite Section meets, Aug. .... 148  
American Mining Congress—Coal Division meeting, Jan. .... 124  
American Society of Mechanical Engineers—Fuels session, Oct. .... 149  
Joint Fuels Conference, Oct. .... 164

#### Anthracite

Anthracite prepares for tomorrow, June. .... 86  
Bootleg mining continues decline, May. .... 149  
Change in pea specifications, Dec. .... 157  
Lewis urges increase in anthracite output, Oct. .... 149  
Monthly production ..... Jan. 140, Feb. 150, Mar. 128, Apr. 150, May 149, June 144, July 132, Aug. 140, Sept. 140, Oct. 144, Nov. 140, Dec. .... 141  
New loading and transporting units for anthracite mining, Sept. .... 109  
Operators urge miners to boost output, Nov. .... 146  
Power company plans new anthracite plant, Oct. .... 162  
Production 1940-1944 (charts), Feb. .... 87  
Rejects plea to halt mine caves, June. .... 138  
Strike settled with pay raise, June. .... 137  
Strike vote asked in anthracite, Apr. .... 146  
Walkout closes mines, May 1, May. .... 136  
WLB approves anthracite pact; prices raised \$1 on domestic sizes, July. .... 136  
Anthracite industries—Foresees continued call for anthracite, Dec. .... 143  
Atomic power—Anthracite used in making atom bomb, Sept. .... 158  
Atoms for coal? (e), Sept. .... 81

#### Awards

"Coal-for-Victory" awards Jan. 70, Mar. \*68, Apr. 142, May \*132, June \*140, July \*104, Aug. \*138, Sept. .... 102

### B

#### Battelle Memorial Institute

Eye protection of industrial workmen to be studied, June. .... 142  
Fuels Division and Bituminous Coal Research outline research, Aug. .... 156  
Water-gas generator to be studied, Sept. 148  
Big Sandy-Elkhorn Mining Institute—First aid contest, Nov. .... 144  
Bit signal solves manpower problem, May. .... 124

#### Bituminous Coal

Bituminous coal operators and United Mine Workers of America sign contract, May. .... 129  
Bureau of Mines studies loading and conveying machines for output per man, Young & Anderson (tables), June. .... 101  
Ceiling boost denial protested in Colorado, June. .... 142  
Ceiling price increases for producers, Sept. .... 142  
Commission may study post-war prospects, May. .... 142  
Consumption by months ..... Jan. 140, Feb. 150, Mar. 128, Apr. 150, May 140, June 144, July 132, Aug. 140, Sept. 140, Oct. 144, Nov. 140, Dec. .... 144  
Exports of high level, Dec. .... 188  
Takes returns 72 seized mines, Mar. .... 134  
Portal-to-portal case rehearing denied, July. .... 140  
Production by months ..... Jan. 140, Feb. 150, Mar. 128, Apr. 150, May 140, June 144, July 132, Aug. 140, Sept. 140, Oct. 144, Nov. 140, Dec. .... 140  
Production 1940-1944 (charts), Feb. .... 87  
SFA lifts restrictions to facilitate output, May. .... 138  
Stocks by months ..... Jan. 140, Feb. 150, Mar. 128, Apr. 150, May 140, June 144, July 132, Aug. 140, Sept. 140, Oct. 144, Nov. 140, Dec. .... 144  
Wage contract extended 30 days; WLB takes jurisdiction in case, Apr. .... 133

#### Bituminous Coal Institute

Advisory committee appointed, Dec. .... 164  
Film shows human side of coal, Feb. .... 150  
New promotion launched, Oct. .... 146  
Synthetic products displayed, Feb. .... 172

#### Bituminous Coal Research, Inc.

Locomotive research to be directed by Yellott, June. .... 150  
Meeting with Fuels Div. of Battelle Memorial Institute, Aug. .... 156  
Steam locomotive research under way, Feb. .... 160

#### Blasting

Colorado bill introduced to limit blasting, Feb. .... 178  
Deflagrating vs. detonating explosives, Aug. .... 120  
Double drill unit mounted on tractor, Sept. .... 132  
Dummy-making time shortened, Apr. .... 130  
General License covers explosives, Nov. .... 154  
New rules cover explosive use, Jan. .... 117  
Portable powder boxes made with brick walls, July. .... 126  
Preventing premature blasts in electrical firing, J. V. Mather, Mar. .... 112  
Repairing blasting machines, Nov. .... 134

Safer detonator circuit suggested, June. .... 132  
Briquetting—Plants ready to start, Dec. .... 158  
British Columbia—Amendment of Coal Mines Regulations Act sought, Mar. .... 146

#### Bureau of Mines

Budget estimates, Feb. .... 166  
Committee to study anthracite, Dec. .... 160  
General license covers explosives, Nov. .... 154  
Permissible equipment plates issued, Jan. 148, Feb. 158, Mar. 154, Apr. 152, May 144, June 160, July 136, Aug. 166, Sept. 156, Oct. 146, Nov. 158, Dec. .... 176  
Road contract let for synthetic fuel plant, Sept. .... 156  
To push experiments with synthetic fuel, Dec. .... 143

### C

#### Canada

Accident rate cut in Drumheller, July. .... 142  
Asked to drop anthracite duty, Nov. .... 160  
Quebec receiving U. S. anthracite, Jan. .... 158  
Uncertainty reigns over coal supply, Oct. .... 168  
Wage advance in Eastern Canada is refused, Feb. .... 165  
China—Pierce to undertake mining mission, Nov. .... 144

#### Coal

All-time production record parallels heavier demand, Feb. .... 96  
Blame OPA prices for curtailed operation, July. .... 134  
"Cheap coal" (e), July. .... 77  
Coal in Europe: serious shortage reflects production lag, C. J. Potter, Oct. .... 102  
Combined Production and Resources Board warns of coal dearth even when war ends, May. .... 146  
District 8 operators and legislators move to increase coal supply, Aug. .... 137  
Further cut seen as coal stocks wane, Mar. 124, Aug. .... 144  
Gasification: coal's chance at an 80-million-ton market, Nov. .... 82  
Lewis, John L.—the real meaning of John L. Lewis' demands, Mar. following p. .... 82  
Planning for progress in coal mining, Sept. .... 82  
Seven war years in coal mining, Sept. .... 85  
Trial by war, (e), Feb. .... 85  
War mobilization and Reconversion cuts coal uses to meet supply, Feb. .... 141

#### Coal Age

Historical summary, Jan. .... 136  
Major Lambrum returns to Coal Age staff, Nov. .... 146  
Sutphen returns to Bergen Record, Sept. .... 148  
Coal Exporters Association chartered, Oct. .... 172  
"Coal-for-Victory" awards  
Mines win awards, Jan. 70, Mar. \*68, Apr. 142, May \*132, June \*140, July 100a, Aug. \*138, Sept. 102, Dec. .... 92  
Coal Mining Institute of America  
Election of officers, Jan. .... 138  
Report of meeting, Jan. .... 134  
Coal Producers Association  
Election of officers, Oct. .... 172  
Compressed air layout anticipates future demands, Williams & Smith, Aug. .... 106

#### Conveyors

Belt and chain conveyors with self-propelled drives at Turner mine, M. J. Reed, Jan. .... 92

Belts and shuttle cars raise efficiency at Bolair, J. H. Edwards, Aug. .... \*95  
 Belt system serves North Diamond shuttle-car mine, R. R. Richart, Apr. \*112  
 Dogs and angles on strands protect apron conveyor, Jan. .... \*114  
 Rock drill, air and small tank eliminate pump for conveyor section, Nov. .... \*134  
 Service for loader productivity (charts), May ..... 86  
 Shakers at Stone operated to eliminate handling of bone, T. H. Booth, June \*108  
 Shakers and belts permit Ross-vein mining at Westmoreland, R. R. Richart, July ..... \*96  
 Shaker conveyors to be used to develop No. 28 mine of Diamond Coal, J. H. Edwards, Jan. .... \*71  
 Shakers and scrapers meet Lorree mining, man-power problems, R. R. Richart, Apr. .... \*101  
 Cumberland Valley Mining Institute—Meeting, Oct. .... 154

**D****Drainage**

Choice and cleaning of mine-water pipes, Aug. .... 120  
 Low-water indication stops pump, Feb. \*134  
 Special pipe solves bad water condition, Aug. .... 128  
 Water handling with less labor (charts), May ..... 101  
 Drumheller Coal Operators Association—Accident rate cut, July ..... 42

**E****Electricity**

Bin signal solves manpower problem, May ..... \*124  
 Borehole cable supported by two steel cables, Dec. .... \*136  
 Coils with laminated terminals put on old motors, Nov. .... \*130  
 Dynamic braking cuts larry car brake-shoe replacements, Jan. .... \*80  
 Electric cable for mining use, Oct. .... 158  
 Electronic relay signals fan trouble, Dec. .... \*138  
 Examination for bituminous mine electrician, Penna., Mar. 108, Apr. \*122, May ..... 120  
 Fan change-over time cut 80 percent, Mar. .... \*118  
 Feeder belts electrically interlocked to prevent overloading belt collecting from them, Apr. .... \*128  
 Good face voltage assures efficient production at low cost, R. R. Richart, Apr. .... \*166  
 Good grounding protects men and equipment in mining, P. M. Barlow, Jan. \*94  
 Haulage-locomotive operation improved by better controls, B. Woodward, Jan. \*85  
 How to clean electric motors, windings and insulation, D. L. Gibson, Oct. .... \*111  
 Lamp batteries repaired at central shop, Dec. .... \*132  
 Locomotives—coil springs and padded plates keep interpoles snug, Dec. .... \*128  
 Locomotives resistances rebuilt with stainless steel, Dec. .... \*132  
 Low-water indication stops pump, Feb. \*134  
 Maintenance for more efficient coal preparation, F. W. .... \*101  
 Paint aids motor installation, July. .... \*120  
 Preventing premature blasts in electrical firing, J. V. Mather, Mar. .... \*112  
 Protecting bearings against wear induced by shaft currents, D. B. Hoover, Aug. .... \*115  
 Pushbutton controlled switches protect hoist and car sprayer, Mar. .... 116  
 Rectifier installation supplies power for larry train carrying refuse at Oak Hill, R. R. Richart, Nov. .... \*103  
 Shuttle-car battery boosted while working, Oct. .... \*124  
 Tester speeds electrical maintenance, Sept. .... \*130  
 Testing insulation strength of electrical equipment, Dec. .... \*130  
 32-volt control cures braking trouble, Oct. .... \*130

**Examinations**

Bituminous mine electrician, Penna., Mar. 108, Apr. \*122, May ..... 120  
 Bituminous mine foreman, Penna., Apr. 124  
 Coal Age quiz, Jan. 102, Feb. 130; Sept. 124, Dec. .... 124  
 Firebosses, Indiana, Feb. 128, June \*124, July ..... 116  
 Foreman quiz, Alabama, Aug. 122, Sept. 122, Oct. 120, Nov. .... \*120  
 Foreman quiz, Ohio, Nov. .... 122  
 Foreman quiz, West Virginia, July 116, Aug. .... 122  
 Illinois state mine inspectors, Jan. 103, Mar. 108, May 118, June ..... 126  
 Mine manager, first class, Illinois, July 118, Aug. 124, Sept. .... 122

**F**

Face preparation  
 Face preparation for efficiency (charts), May ..... 81  
 Fireboss examination, Indiana, Feb. 128, June \*124, July ..... 116

**Foremen**

Employee relations call for increasingly careful handling, J. J. Foster, Jan. .... \*76  
 Examination for bituminous mine foreman, Penna., Apr. .... 124  
 Examination for mine foremen, Alabama, Aug. 122, Sept. 122, Oct. 120, Nov. .... 120  
 Examination for mine foremen, Ohio, Nov. .... 122  
 Examination for mine foremen, West Virginia, July 116, Aug. .... 122  
 Grievance machinery for foremen urged, Mar. .... 138  
 NLRB permits foremen to organize, Apr. 146  
 Union for foremen (e), June ..... 85

**France**

U. S. Mine apparatus to be bought, Jan. 117

**Freight Rates**

Anthracite rates cut to tidewater piers to New Jersey, Nov. .... 144  
 I.C.C. cuts rates to Youngstown, Nov. 146  
 Kentucky freight rates upheld by I.C.C., June ..... 142  
 Proposes rate cut in Tidewater case, Feb. .... 178  
 Rail rate increase again postponed, Jan. 177  
 Rate advance, Dec. .... 169  
 Suspension of rates to continue, Sept. .... 154  
 West Kentucky coal rate cut is attacked, May ..... 152

**Fuel**

Big Inch and Little Inch pipelines up for purchase, Oct. 176, Dec. .... 143  
 Bureau of Mines to push experiments with synthetic fuel, Dec. .... 143  
 Distillate oil demand causes concern, Dec. .... 150  
 Gas turbines coal's new railroad fuel opportunity, J. L. Yellott, Aug. .... \*113  
 Gasification: coal's chance at an 80-million-ton market, Nov. .... \*82  
 Iowa home owners prefer coal heat, Oct. 174  
 May be bitter fight over U. S. pipelines, Nov. .... 156  
 Oil freed for civilian use, Sept. 140  
 Petroleum synthesis process announced, Feb. .... 174  
 SFA program for new fuel year stiffens control as supply wanes, Apr. .... 138  
 Work starts on plant for synthetic fuels, Feb. .... 142

**G****Germany**

Coal planer developed in German mines, Nov. .... 150  
 Karl Alexander coal mine worked for the allies, Mar. .... \*126  
 Mining in Europe: wartime coal production and utilization, H. F. Yancey, Dec. .... \*115  
 Synthetic fuel plants, July ..... 140

**Great Britain**

Coal control plan for New South Wales, Nov. .... 150  
 Coal nationalization planned, Sept. .... 137  
 Coal picture still difficult, Feb. .... 152  
 Manpower dominates coal industry, Dec. .... 152  
 Nationalization of mines next year, Oct. 149  
 Nationalizing barred in British report, Apr. .... 148

**H****Hydro-electric Projects**

Anti-St. Lawrence drive organized, Aug. 146  
 Missouri Valley Authority hearings under way, Oct. .... 156  
 Missouri Valley Authority meets another setback, Nov. .... 158  
 Missouri Valley Authority rejected by Senate Committee, June ..... 166  
 Pennsylvania will take over Schuylkill Dams, July ..... 148  
 St. Lawrence project hearing postponed, Jan. .... 117  
 St. Lawrence project introduced again, Feb. .... 146

**I**

Illinois Coal Preparation Engineers & Chemists—Railroad locomotive coal specifications discussed, June ..... 160  
**Illinois Mining Institute**  
 Election of officers, Dec. .... 148  
 Report of meeting, Dec. .... 146  
**Illinois Society of Preparation Engineers & Chemists**—Fuel problems at meeting, Apr. .... 154  
 Inspection  
 Illinois state mine inspectors examination, Jan. 104, Mar. 108, May 118, June ..... 126  
 Pennsylvania inspection bill signed; cave-in measure blocked, May ..... 162  
 Insurance—Pennsylvania insurance rate cut, Jan. .... 155

**K**

Kentucky Mining Institute  
 Election of officers, Jan. .... 122  
 Report of meeting, Jan. .... \*118  
 Report of meeting, Oct. .... 166

**TECHNOLOGY****L****Labor**

Absenteeism sets new record, Feb. .... 88  
 Anthracite mines had 78,145 men in 1944, May ..... 164  
 Anthracite strike settled with pay raise, June ..... 137  
 Anthracite walkout closes mines, May 1, Apr. 146, May ..... 136  
 Better utilization of mining manpower (charts), May ..... 74  
 Bill presented to prohibit royalty payments, Apr. .... 150  
 Bituminous contract agreed on; some work stoppages continue, May ..... 129  
 Can coal mining guarantee annual wages? Given & Sutphen (charts), Aug. .... 86  
 Checking men in speeded by special facilities at Summit, July ..... \*101  
 Compensation denied striking foremen, Nov. .... 144  
 Contract negotiation: problem and opportunity for coal, I. A. Given, Feb. \*92  
 Contract observance (e), June ..... 85  
 Deference of vital men under 30 allowed, Mar. .... 126  
 District 8 operators move to increase coal supply, Aug. .... 137  
 District 50 seeks certification for men, Aug. .... 142  
 Draft of men under 30 is eased, Apr. .... 162  
 Drive to unionize mine supervisors marked by Lewis strike threat, Oct. 139  
 Employee relations call for increasingly careful handling, J. J. Foster, Jan. \*78  
 Getting cooperation: how management can proceed, Dec. .... 89  
 Grievance machinery for foremen urged, Mar. .... 138  
 Hearings concludes by WLB panel, Feb. 169  
 Helping coal's veterans get a new start, July ..... \*78  
 Holiday wage claims in dispute, Oct. .... 152  
 How to gain miner cooperation, Whiting Williams, Dec. .... \*88  
 Illinois joint board adjudicates disputes, Sept. .... 148  
 Job Relations Training course used by 40 coal companies, May ..... 146  
 Labor law revised in new Senate bill, July ..... 131  
 Lewis calls off supervisory strike until more appropriate date, Nov. .... 139  
 Lewis demands 10¢ coal royalty; files notice of wage dispute, Mar. .... 123  
 Lewis, John L.—the real meaning of John L. Lewis demands, Mar. following p. .... 82  
 Limits announced on "fringe" awards, Apr. .... 166  
 Loss of opportunity for advancing cooperation between miner and operator (e), Apr. .... 85  
 Manpower efficiency (e), May ..... 73  
 Manpower leading 1945 coal problem (charts), Feb. .... 86  
 Manpower opportunities, May ..... 111  
 Maritime pact effects 2-year peace, Dec. 198  
 Miners to be allowed more meat, Aug. 149  
 Mining taught in West Virginia vocational schools, S. T. DeJournett, Apr. \*97  
 National Bituminous Coal Wage Conference committee hold meetings, Aug. 146  
 Nova Scotia coal prices increased to boost miners' pay, Sept. .... 169  
 Pennsylvania Coal Co. sets up employer-management forum, Mar. .... 146  
 Pennsylvania miner makes record of loading 17 tons daily, Mar. .... 146  
 Pittsburgh Coal trains supervisors to help them in their work, R. E. Charlier, Apr. .... \*86  
 Planning for progress in coal mining, Sept. .... 85  
 Portal-to-portal pay to be reviewed by Supreme Court, Feb. 170, Apr. .... 152  
 Portal-to-portal pay upheld by Supreme Court, June ..... 144  
 Portal-to-portal case rehearing denied, July ..... 140  
 Progressive pact wins NWLB approval, June ..... 146  
 Reemployment of veterans, June ..... 148  
 Ruling favors union on holiday question, Nov. .... 156  
 Selective Service outlines procedure for carrying out selection of men in 26-29 group, Feb. .... 165  
 Strikes and new seizures mark government and labor relations, Feb. .... 98  
 Strike of foremen in West Virginia, June ..... 146  
 Unionization of mine supervisors (e), Nov. .... 81  
 Wage-hour hearings start in Senate, Oct. .... 166  
 WLB approves anthracite pact; prices raised \$1 on domestic sizes, July ..... 136  
 WLB gains power on "fringe" awards, Mar. .... 148  
 War Manpower Commission lifts controls as war ends, Sept. .... 146  
 WPB demobilization proceeds steadily, Oct. .... 146

**Law and Legislation**

Amended version of Labor Disputes Act reported favorably, Dec. .... 148  
 Anti-subsidence bill reaches Pennsylvania House, Mar. .... 146  
 Cave-in bill, Feb. .... 146  
 Federal statute of limitations urged, July ..... 134

Gwynne bill reported in House, Nov. . . . . 158  
 Illinois coal test program, Aug. . . . . 146  
 Labor law revised in new Senate bill, July . . . . . 131  
 Ohio governor to push strip mining area restoration, Mar. . . . . 144  
 Ohio House rejects strip-mine measure, July . . . . . 132  
 Rejects plea to halt mine caves, June . . . . . 138  
 Testify on federal statute of limitations, Aug. . . . . 162  
 West Virginia has new strip law, May . . . . .

## M

## Maintenance

Air compressor's water kept from freezing by draining, Mar. . . . . \*120  
 Air-driven tools occupy special rack, Oct. . . . . \*136  
 Air hoist helps cage rails and timbers, Apr. . . . . \*126  
 Blasting machines repaired periodically, Nov. . . . . \*134  
 Borehole cleaning with pipe cleaner, Feb. . . . . \*132  
 Boring rig speeds repairs to strip shovel, May . . . . . \*122  
 Cat valve jig saves time and promotes accuracy, Nov. . . . . \*133  
 Coils with laminated terminals put on old motors, Nov. . . . . \*130  
 Continuous cable testing with gadget, Feb. . . . . \*138  
 Cutting cost in anthracite preparation maintenance, J. S. Johnson, Mar. . . . . \*83  
 Cutting flame tempers chain link, Nov. . . . . \*128  
 Drill press with three speeds and cooling, Sept. . . . . \*134  
 Drill repairs made on test bench, Apr. . . . . \*130  
 Drilling equipment made stronger, Dec. . . . . \*128  
 Gage measures pressure in air hose, Oct. . . . . \*128  
 Grease cup in safer location, Mar. . . . . \*116  
 Guides oiled automatically, Mar. . . . . \*116  
 Hydraulic ram plays big role in shops, Nov. . . . . \*130  
 Inclined horses replace jacks, June . . . . . \*134  
 Labeling crane controls saves confusion, Nov. . . . . \*133  
 Lube center for lathe made from bearings, June . . . . . \*134  
 Loader greasing changed by moving fittings, Nov. . . . . \*136  
 Loading machine roller rebuilt, Dec. . . . . \*134  
 Lubrication features Illinois meeting, Nov. . . . . 148  
 Maintenance to conserve manpower (organization chart), May . . . . . 94  
 Metal inserts hold center marks, June . . . . . \*130  
 Modern machine tools promote efficiency, Aug. . . . . \*134  
 Modern shops meet maintenance need at Union Pacific, Nov. . . . . \*97  
 Motorized brush cleans boiler-flue caps, May . . . . . 124  
 No waste space in oil house at Belair, Aug. . . . . \*126  
 Paint aids motor installation, July . . . . . \*120  
 Pins hold split gears central, Sept. . . . . \*134  
 Pit cover moved off in one piece, July . . . . . \*122  
 Portable metal saw roams machine shop, July . . . . . \*120  
 Power washer for shop uses discarded parts, July . . . . . \*128  
 Preparation-plant maintenance and repair, F. W. Richart, pt 1, Oct. . . . . \*105  
 pt 2, Nov. . . . . \*99, pt 3, Dec. . . . . \*101  
 Protecting bearings against wear induced by shaft currents, D. B. Hoover, Aug. . . . . \*115  
 Restoring pump rods cuts maintenance, Apr. . . . . \*126  
 Sealed air-breaker tube walls finished, Aug. . . . . \*126  
 Scrap steel improves swivel jack, Oct. . . . . \*136  
 Setting up maintenance for maximum preparation results, F. W. Richart, Aug. . . . . \*108  
 Straightening shuttle-car tenders easily done, July . . . . . \*124  
 Synthetic tire and tube maintenance, L. H. Taylor, Sept. . . . . \*104  
 Tension machine makes better car braces, June . . . . . \*130  
 Tire casings repairs in place, Jan. . . . . \*166  
 Tires turned simultaneously, Dec. . . . . \*136  
 Universal holder for boring mill saves time and tools, Dec. . . . . \*140  
 Wooden car sills turned out by special machine, June . . . . . \*132  
 Wrench cases locomotive work, Jan. . . . . \*108  
 Wrench tightens clamps under guards, Jan. . . . . \*112

## Management

Drive to unionize mine supervisors marked by Lewis strike threat, Oct. . . . . 139  
 Examination for mine manager, first class, Illinois, July . . . . . \*118, Aug. . . . . 124, Sept. . . . . 122  
 Getting cooperation: how management can proceed, Dec. . . . . 89  
 Helping coal's veterans get a new start, July . . . . . \*78  
 Lewis, John L.—the real meaning of John L. Lewis' demands, Mar. following . . . . . 82  
 Management first (ed.), Dec. . . . . 85  
 Pittsburgh coal trains supervisors to help them in their work, R. E. Clark, Apr. . . . . \*86

## Mechanization

Belt and chain conveyors with self-propelled drives at Turner mine, M. J. Reed, Jan. . . . . \*92  
 Belt system serves North Diamond shuttle-car mine, R. R. Richart, Apr. . . . . \*112  
 Big cars complete modernization of Bitaine mine, Sept. . . . . \*114  
 CG rating for coal equipment, Nov. . . . . 148  
 Designing a mine for maximum efficiency in production, J. H. Dickerson, Feb. . . . . \*121  
 Freeman modernizes to convert from hand loading to mechanization, F. W. Richart, June . . . . . \*112  
 Loader output increased by shuttle-cars in crosspitch places, Nyman & Hyatt, June . . . . . \*93  
 Loader performance improved by better hinge bolt, Dec. . . . . \*138  
 Loader—sectionalizing hydraulic lines a saving, May . . . . . 122  
 Loaders—service for loader productivity (charts), May . . . . . 86  
 Loader tonnage at Norton Mine is boosted by prefabricated track, Lindsay Cobb, Jan. . . . . \*89  
 Loading and conveying machines studied by Bureau of Mines for tons per man, Young & Anderson (tables), June . . . . . 101  
 Machine loading—taking top and coal raises entry output, J. H. Edwards, Oct. . . . . \*88  
 Machine methods raise efficiency (charts), May . . . . . 78  
 More coal, more tons per man (charts), May . . . . . 81  
 New Republic mine in Kentucky planned for complete mechanical operation, J. H. Edwards, July . . . . . \*86  
 Power use in hand loading and mechanical mining, J. C. Cree, Jan. . . . . 79  
 Sales of mechanical loading and cleaning equipment, Young & Anderson (tables), Feb. . . . . 104  
 Shakers and scrapers meet Loren mining, manpower problems, R. R. Richart, Apr. . . . . \*101  
 Walls equipped with loading machines delivering to conveyors cut top trouble, J. H. Edwards, Dec. . . . . \*107

## Merchandising

Answer no. 1 (ed.), Oct. . . . . 81  
 Anthracite prepares for tomorrow, June . . . . . \*86  
 Blaw-Knox Co. opens new plant for packaged fuel, June . . . . . 144  
 Coal exposition to be held in Chicago, Nov. . . . . 154  
 Department store to sell stokers, Oct. . . . . 162  
 Key to more business for coal: better merchandising, Oct. . . . . \*82  
 Packaged fuel sale begun in Philadelphia, Mar. . . . . 138  
 Planning for progress in coal mining, Sept. . . . . 85  
 Reinforcement for sales agencies, Jan. . . . . 68  
 Methane—Given enough heat methane always burns, Apr. . . . . 129  
 Percentages of methane increase difficulty of controlling coal dust, Dec. . . . . \*120

## Mining Electrical Group

Importance of balancing parts discussed at meeting, June . . . . . 118  
 Meeting, Apr. . . . . 160  
 Meeting discusses lubrication, Nov. . . . . 148  
 Mining Electrical Group of Southern Illinois Report of meeting, Dec. . . . . 154

## Mining Methods

Anthracite applications for new loading and transporting units, Sept. . . . . \*109  
 Designing a mine for maximum efficiency in production, J. H. Dickerson, Feb. . . . . \*121  
 Diamond 2B mine is built around previous conveyor success, J. H. Edwards, Jan. . . . . \*71  
 Higher efficiency the goal in mining improvements, Feb. . . . . \*100  
 Machine loading—taking top and coal raises entry output, J. H. Edwards, Oct. . . . . \*88  
 Republic mine, Kentucky, planned for complete mechanical operation and pillar recovery, J. H. Edwards, July . . . . . \*86  
 Shakers and belts permit Ross-vein mining at Westmoreland, R. R. Richart, July . . . . . \*96  
 Walls equipped with loading machines delivering to conveyors cut top trouble, J. H. Edwards, Dec. . . . . \*107  
 What to watch in exploring old works, June . . . . . \*120

## N

## National Bituminous Coal Commission

Bills provide for commission, Feb. . . . . 142  
 National Coal Association meets, Oct. . . . . 164  
 Executive Committee meets, Dec. . . . . 169

## Natural Gas

F. P. C. sets hearing for pipeline, Aug. . . . . 164  
 F. P. C. sets hearings in probe, Aug. . . . . 116  
 F. P. C. to hold hearings on gas lines, Dec. . . . . 144  
 Gas case taken to Supreme Court, July . . . . . 144  
 Gas pipeline sold by Chicago Corp., Oct. . . . . 146  
 Louisiana governor objects to gas inroads, Dec. . . . . 144  
 Natural gas investigation in Oklahoma City, Nov. . . . . 162

Oklahoma to Michigan gas line permit asked, Mar. . . . . 136  
 Senator seeks probe of industry, Feb. . . . . 176  
 Texas-Michigan gas line proposed, Nov. . . . . 144  
 Texas-Ohio gas line proposed, Apr. . . . . 142  
 Wisconsin interested in natural gas, Oct. . . . . 160  
 Netherlands—Mining in Europe: wartime coal production and utilization, H. E. Yancey, Dec. . . . . \*115  
 Nova Scotia—Prices of coal increased to boost miners' pay, Sept. . . . . 160

## O

Office of Synthetic Fuels—Oil-Shale Mining Div. set up, July . . . . . 140  
 Oil-shale plant site selected, Mar. . . . . 142

## P

Packer colliery turned over to Tony Rose, May . . . . . 164

## Personal

Addy, Geo. L., Dec. . . . . 174  
 Agee, E. B., July . . . . . 142  
 Amick, W. H., Dec. . . . . 172  
 Arnett, L. L., July . . . . . 142  
 Auch, John L., Mar. . . . . 152, Oct. . . . . 150  
 Barnes, John P., Oct. . . . . 150  
 Beaney, Thomas M., July . . . . . 142  
 Beattie, H. L., Sept. . . . . 154  
 Beers, Harold M., July . . . . . 142  
 Bennett, M. W., Dec. . . . . 176  
 Booth, T. H., Feb. . . . . 158  
 Bowers, Lt. Col. J. A., Dec. . . . . 174  
 Boxley, A. P., Nov. . . . . 150  
 Boynton, Byron A., Oct. . . . . 150  
 Bryant, W. D., Oct. . . . . 152  
 Buchanan, D. W., June . . . . . 156  
 Buckley, Fred D., May . . . . . 152  
 Campbell, L. C., Nov. . . . . 150  
 Carr, E. L., Sept. . . . . 152  
 Cassel, Byron C., Sept. . . . . 152  
 Clay, M. K., Oct. . . . . 150  
 Close, Wallace, Aug. . . . . 154  
 Clouse, John D., Oct. . . . . 150  
 Cohn, Harry E., Apr. . . . . 164  
 Colquhoun, Alex., May . . . . . 152  
 Conover, James, Nov. . . . . 152  
 Conrad, Olen, Jan. . . . . 144  
 Cooner, John D., Mar. . . . . 150  
 Copher, H. L., Aug. . . . . 152  
 Corgan, Joseph A., Mar. . . . . 150  
 Cosslett, David L., May . . . . . 148  
 Crawford, John W., Jan. . . . . 144, Oct. . . . . 150  
 Crews, Garrett, July . . . . . 142, Sept. . . . . 150  
 Crichton, A. B., July . . . . . 142  
 Cross, N. E., Oct. . . . . 152  
 Davis, Ira F., Sept. . . . . 154  
 Davis, J. O., Nov. . . . . 152  
 Davis, W. E., Nov. . . . . 152  
 Day, T. A., July . . . . . \*142  
 Degrosky, Peter, Apr. . . . . 164  
 Delany, J. H., June . . . . . \*154  
 Denny, Mark, Apr. . . . . 164  
 Dent, John K., June . . . . . 154  
 Diamond, William F., Dec. . . . . 172  
 Dick, George B., Sept. . . . . 154  
 Dierks, H. A., June . . . . . 154  
 Dobbs, Sydney A., Aug. . . . . 154  
 Douglass, R. L., June . . . . . 154  
 Duemler, Robert F., Jan. . . . . 146  
 Dukes, John C., May . . . . . 150  
 Duncan, Quincy, May . . . . . 152  
 Durham, Wilby M., Oct. . . . . 152  
 Erickson, Edward A., May . . . . . 150  
 Ferguson, T. G., Sept. . . . . 154  
 Fitzgerald, Joe W., Oct. . . . . 152  
 Fitzpatrick, William, Dec. . . . . 172  
 Flippin, C. J., May . . . . . 150  
 Ford, Leonard C., Dec. . . . . 176  
 Fuller, J. W., Oct. . . . . 152  
 Grant, Alex., May . . . . . \*150  
 Griffith, H. J., Dec. . . . . 176  
 Gwyn, Edward D., Oct. . . . . 152  
 Harvey, Stanley C., June . . . . . 154  
 Harvey, Stanley C., July . . . . . 142  
 Hawley, W. D., Dec. . . . . 174  
 Heien, Fred, Sept. . . . . 150  
 Herder, Howard A., Aug. . . . . 154  
 Hillman, Ernest, Dec. . . . . 174  
 Howard, Noah D., Mar. . . . . 150  
 Howe, Jno. W., Aug. . . . . 154  
 Ireland, James D., Feb. . . . . 156  
 Ivill, William L., Apr. . . . . 164  
 Jenkins, G. S., June . . . . . 154  
 Johnson, Edwin H., Jan. . . . . 146  
 Johnson, J. E., Nov. . . . . 152  
 Jones, David W., Dec. . . . . 176  
 Jones, Capt. Harold M., Dec. . . . . 174  
 Jones, John H., May . . . . . 150  
 Jones, S. A., July . . . . . 142  
 Judd, Orville D., Oct. . . . . 150  
 Keer, Eugene J., Aug. . . . . 156  
 Keith, Charles C., Apr. . . . . 162  
 Kelley, H. J., June . . . . . 156  
 Kellum, Clyde S., May . . . . . 152  
 Kennedy, Joseph, Nov. . . . . 150  
 Kerr, Marcus, Sept. . . . . 152  
 Kmetz, Thomas, Apr. . . . . 164  
 Knill, R. R., Feb. . . . . 156  
 Knozien, Arthur S., Nov. . . . . 150  
 Knozien, Arthur S., Mar. . . . . 150  
 Knozien, Arthur S., Jan. . . . . \*117  
 Koenig, Col. Robert P., Aug. . . . . 154, Sept. . . . . 151  
 Koper, Fred G., Feb. . . . . 154  
 Krausman, A., Oct. . . . . 150  
 Lakin, Lt. C. B., Dec. . . . . 174

|  |      |
|--|------|
| Lambie, W. K., Sept.   | 150  |
| Lang, C. B., July  | 142  |
| Lawall, Charles E., Sept.                                    | 154  |
| Lawson, Claude S., Oct.                                      | 151  |
| Lazelle, R. G., July   | 142  |
| Lee, Norman W., June   | 156  |
| Lewis, Arthur H., Feb.                                       | 158  |
| Lewis, James, May  | 150  |
| Lichford, Lewis E., Oct.                                     | 150  |
| Lincoln, John J., Oct.                                       | 151  |
| Love, George H., Nov.  | 154  |
| Lutz, Ed., Aug.  | *150 |
| Lynch, Edward A., Oct.                                       | 154  |
| Lyons, Orville R., Feb.                                      | 150  |
| Lyon, L. Thayer, Mar.  | 154  |
| Lytton, Elwell J., Feb.                                      | 154  |
| Mabley, Lt. Col. C. R. Jr., Dec.                             | 174  |
| Maize, Richard, Jan.   | 146  |
| Maize, Richard, May  | 150  |
| Maroshiek, Frank Jr., July                                   | 142  |
| Marshall, Carl A., Dec.                                      | 176  |
| Mash, George F., Apr.  | 164  |
| Maurer, Thomas D., Dec.                                      | 174  |
| Mayhew, John, Dec.   | 172  |
| McCabe, Col. Louis C., Nov.                                  | 150  |
| McDermott, H. P., Dec.                                       | 172  |
| McDonald, H. F., Sept.                                       | 152  |
| McKibbin, Geo. B., Jan.                                      | 144  |
| McLanders, T. S., June                                       | 156  |
| McMillan, Earl R., Aug.                                      | 152  |
| Morgan, George, May  | 148  |
| Morgan, Osborne, Oct.  | 152  |
| Morgan, Raymond J., Mar.                                     | 142  |
| Morris, Griffith, July                                       | 158  |
| Morris, Griffith, Feb.                                       | 152  |
| Mullins, C. W., Oct.   | 164  |
| Nairn, Alfred J., Apr.                                       | 150  |
| Nicholson, F. C., Mar.                                       | 152  |
| Null, Henry H., Mar.   | 162  |
| Oklar, Nejard, Apr.  | 151  |
| Osborne, Fred, Oct.  | 156  |
| O'Toole, Laurence, June                                      | 152  |
| Paresi, Dario, May   | 152  |
| Patterson, G. M., Dec.                                       | 174  |
| Patterson, G. Moss, Oct.                                     | 150  |
| Peternell, Frank J., Mar.                                    | 152  |
| Pogachanick, Andy, Apr.                                      | 164  |
| Polk, Lt. Wm. G. Jr., June                                   | 154  |
| Prosser, Fred K., Jan.                                       | 144  |
| Purifull, Sgt. Ernest, May                                   | 152  |
| Quick, Earl H., Oct.   | 152  |
| Raymond, John, Feb.  | 158  |
| Raymond, John, Jan.  | 144  |
| Reece, Carl E., June   | 154  |
| Reed, C. A., Aug.  | 150  |
| Reppert, James H., Oct.                                      | 148  |
| Reynolds, Joseph L., May                                     | 154  |
| Ritter, Paul D., Aug.  | 176  |
| Roberts, Arthur, Dec.  | 152  |
| Rogers, B. M., Oct.  | 150  |
| Ruane, Joseph P., Nov.                                       | 150  |
| Rumof, Ernest F., Mar.                                       | 152  |
| Salvati, Raymond E., Apr.                                    | 162  |
| Sawyer, Leslie E., Jan.                                      | 146  |
| Schmidt, Henry G., July                                      | 142  |
| Schull, B. H., July  | *142 |
| Schnitz, Robert J., May                                      | 156  |
| Scott, C. G., Oct.   | 152  |
| Scott, R. C., Oct.   | 152  |
| Sellards, W. E., Feb.  | 158  |
| Shagley, Earl, Feb.  | 156  |
| Shaw, E. H., Nov.  | 152  |
| Sheppard, John E., Jan.                                      | 172  |
| Short, Cleophus, Nov.  | 150  |
| Stencknecht, W. H., Dec.                                     | 164  |
| Sizemore, David C., Dec.                                     | 152  |
| Skinner, John A., Apr.                                       | 152  |
| Skinner, Roger S., Sept.                                     | 154  |
| Smart, Robert K., Aug.                                       | 154  |
| Smelker, James W., Mar.                                      | 150  |
| Smith, Donald N., June                                       | 154  |
| Spaeth, A. W., Aug.  | 158  |
| Speed, William S., Feb.                                      | 158  |
| Spindler, G. R., Dec.  | 172  |
| Stang, John H., Mar.   | 154  |
| Stortz, Alfred, May  | 152  |
| Stow, Dr. Marcellus H., Mar.                                 | 150  |
| Stras, J. Campbell, Apr.                                     | 164  |
| Thatcher, S. H., Nov.  | 152  |
| Thomas, R. Harry, Dec.                                       | 176  |
| Tibbs, Harry M., Dec.  | 174  |
| Tinsley, William A., May                                     | 152  |
| Tyson, James W. 2nd, Jan.                                    | 144  |
| Valleau, Thomas G., Feb.                                     | 156  |
| Van Buskirk, Arthur B., Mar.                                 | 152  |
| Vaughn, Noryn H., June                                       | 154  |
| Wall, Hubert H., Jan.  | 146  |
| Wallace, Maj. G. A., Dec.                                    | 174  |
| Walthour, James R., Jan.                                     | 144  |
| Ward, George S., June  | *158 |
| Watson, Loren, July  | 142  |
| Wayne, Roger S., Sept.                                       | 152  |
| Westerberg, Carl, July                                       | 142  |
| Weysser, John L. G., Sept.                                   | *152 |
| Wheeler, Harold R., Apr.                                     | 164  |
| Wickey, Harold B., Oct.                                      | 150  |
| Wilkins, Cary J., Oct.                                       | 150  |
| Williams, Clyde, July  | 142  |
| Williams, J. P. Jr., Nov.                                    | 150  |
| Williams, Stephen, Oct.                                      | 151  |
| Woomer, J. W., Aug.  | 152  |
| Workman, M. L., Nov.   | 152  |
| Workman, M. L., June   | *152 |
| Pocahontas Operators' Assn., "Lighting clinic" is held, Jan. | 150  |

#### Power Generation

|   |      |
|---|------|
| Electric power output by months, Jan.                       | 140  |
| 140, Feb. 150, Mar. 128, Apr. 150, May                      | 140  |
| 140, June 144, July 132, Aug. 140, Sept.                    | 140  |
| 140, Oct. 144, Nov. 140, Dec.                               | 144  |
| Good face voltage assures efficient production at low cost. | 140  |
| R. R. Richart, Apr.   | *106 |
| Potomac power project rouses loud protest, May              | 166  |

|  |                  |    |
|--|------------------|----|
| Power for high productivity, May                 | *92              |    |
| Power use in hand loading and mechanical mining. | J. C. Cree, Jan. | 79 |

#### Preparation

|   |                                |                                    |      |
|---|--------------------------------|------------------------------------|------|
| Anthracite treated with anti-freeze to facilitate unloading, Feb.   | 176                            |                                    |      |
| Cutting cost in anthracite preparation maintenance.   | J. S. Johnson, Mar.            | *83                                |      |
| Design and materials help cut preparation maintenance.  | F. W. Richart, June            | *96                                |      |
| Gate in hydro-separator saves coal from refuse, Oct.  | *128                           |                                    |      |
| How to weigh for accuracy in mine-scale operation.  | H. M. Roeser, Feb.             | *114                               |      |
| Loads sprinkled on the fly without waste of water, Feb.   | *119                           |                                    |      |
| Maintenance and repair of coal-preparation plants.  | F. W. Richart, pt. 1, Oct.     | *105, pt. 2, Nov. *90, pt. 3, Dec. | *101 |
| Modern coal plant may be considered a factory, Mar.   | 132                            |                                    |      |
| Modern washery supplements stripping at new truck mine.   | F. W. Richart, Sept.           | *97                                |      |
| New preparation facilities in 1944.   | Feb.                           | 102                                |      |
| New preparation facilities, Jan.  | 148                            |                                    |      |
| Feb. 170, Mar. 154, Apr. 166, May, 138, June 162, July 152, Aug. 150, Sept. 160, Oct. 174, Nov. 150, Dec. | 178                            |                                    |      |
| New rock-disposal method saves manpower, May  | *126                           |                                    |      |
| Pond River washes 400 tons per hour, produces 2,000 tons per day.   | F. W. Richart, Mar.            | *74                                |      |
| Power-driven sprayer used on haulage roads, Sept.   | *128                           |                                    |      |
| Preparation with high productivity (charts), May  | 109                            |                                    |      |
| Republic mine, Kentucky, uses wet and dry cleaning of coal.   | J. H. Edwards, July            | *86                                |      |
| Sale of mechanical loading and cleaning equipment.  | Young & Anderson (table), Feb. | 104                                |      |
| Setting up maintenance for maximum preparation results.   | F. W. Richart, Aug.            | *108                               |      |
| Shakers at Stone operated to eliminate handling of bone.  | T. H. Booth, June              | *108                               |      |
| Slurry plant used vibrating screen for dewatering, Mar.   | *95                            |                                    |      |
| Super-pulverizing for small anthracite.   | Nov.                           | 160                                |      |

## R

#### Railroads

|  |                     |      |
|--|---------------------|------|
| I.C.C. hearings on Va.-Ky. extensions, June                | 152                 |      |
| L & N equipment to be increased, Aug.                      | 148                 |      |
| Railroads rush to open new Virginia field, Apr.            | 152                 |      |
| Refuse disposal—Anti-stream pollution plans approved, Feb. | 172                 |      |
| Larry train solves Oak Hill refuse-disposal problem.       | R. R. Richart, Nov. | *103 |

#### Regulation

|   |     |
|---|-----|
| Ceiling prices increased for producers, Sept.                             | 142 |
| Distribution restrictions reduced; feared coal deficit dwindles, Oct.     | 142 |
| Pennsylvania files replies to operators' suits, Dec.                      | 157 |
| Pittsburgh Coal Co. to fight OPA suit, Sept.                              | 156 |
| Priorities continue, June 148; simplified, Aug. 160; to be revoked, Sept. | 148 |
| Strip mining suits filed in Pennsylvania, Oct.                            | 154 |

#### Research

|   |     |
|---|-----|
| Contract let for oil-shale laboratory, May  | 144 |
| Laboratory opened by Indiana group, July  | 132 |
| Lehigh University making roof test research, June   | 144 |
| Oil research centers planned by Standard Oil Co., Sept.                                   | 148 |
| Oregon coals for industrial carbon production to be studied by Oregon State College, Nov. | 167 |
| Planning for progress in coal mining, Sept.   | 85  |
| U. S. Bureau of Mines to conduct experiments in West Virginia University, Dec.            | 158 |
| University of Kentucky pilot plant now in operation, Aug.                                 | 158 |

#### Roof Control

|   |      |
|---|------|
| Blocking steel sets with concrete, Mar.         | *120 |
| Blocks season better underground, Sept.         | *136 |
| Crossbar better than 50 years' experience, Apr. | 120  |
| Roof test research progresses at Lehigh, June   | 144  |
| Timbering for safety in mechanical mining, Mar. | *89  |

## S

#### Safety

|  |     |
|--|-----|
| Accident rate cut in Drumheller, July  | 112 |
| Analyses of gases escaping from crushed coal bottled in vacuum with relation to coal by volume, Feb. | 126 |

#### Carbon-dioxide frost circumvented.

|                 |     |
|-----------------|-----|
| E. Heigis, Jan. | 199 |
|-----------------|-----|

|  |     |
|--|-----|
| Cave-in measure blocked in Pennsylvania, May | 162 |
|--|-----|

|  |     |
|--|-----|
| Cedar Canon mine leads state in safety, Apr. | 142 |
|--|-----|

|   |     |
|---|-----|
| Checking men in speeded by special facilities at Summit, July | 101 |
|---|-----|

|  |     |
|--|-----|
| Colorado rules for man-trip handling, Apr. | 120 |
|--|-----|

|   |     |
|---|-----|
| Committee in Pennsylvania to study miners' diseases, Nov. | 156 |
|---|-----|

|  |     |
|--|-----|
| Continuous cable testing with gadget, Feb. | 118 |
|--|-----|

|                             |      |
|-----------------------------|------|
| Cut-off saw made safe, Dec. | *132 |
|-----------------------------|------|

|   |      |
|---|------|
| Detonator circuit improvements suggested, May | *132 |
|---|------|

|   |     |
|---|-----|
| Drumheller Coal Operators' Assn. to start safety campaign, Jan. | 148 |
|---|-----|

|   |     |
|---|-----|
| Explosion used to control mine fire, Nov. | 118 |
|---|-----|

|  |      |
|--|------|
| Fire-fighting equipment always ready at Dun Glen, Jan. | *114 |
|--|------|

|  |      |
|--|------|
| Fire in nearby working extinguished by using bad air in old goaf, Aug. | *118 |
|--|------|

|  |     |
|--|-----|
| Fires—dying mine fires would create irreducible gages if seals were tight, Sept. | 118 |
|--|-----|

|  |      |
|--|------|
| Fires—how to combat stopping leaks in sealed area around a mine fire, July | *112 |
|--|------|

|  |     |
|--|-----|
| Fires—large vs. small sealed areas for extinguishment of mine fires, May | 114 |
|--|-----|

|  |     |
|--|-----|
| Fires—sealing a mine fire in a large or small area, Feb. | 121 |
|--|-----|

|   |     |
|---|-----|
| Frederick mine wins Governor's cup, Sept. | 138 |
|---|-----|

|                                    |      |
|------------------------------------|------|
| Crease cup in safer location, Mar. | *116 |
|------------------------------------|------|

|   |      |
|---|------|
| Haulage safety promoted by logic in eliminating hazards, Dec. | *119 |
|---|------|

|   |      |
|---|------|
| Headblock and runaway switch form safety team, Apr. | *126 |
|---|------|

|   |     |
|---|-----|
| Keep carbon monoxide below 0.01 percent, Oct. | 118 |
|---|-----|

|  |     |
|--|-----|
| Locomotive stops when operative leaves it, Sept. | 118 |
|--|-----|

|                                       |     |
|---------------------------------------|-----|
| A man hurt is a man off the job, July | 114 |
|---------------------------------------|-----|

|                                   |      |
|-----------------------------------|------|
| Measurement of air pressure, Oct. | *118 |
|-----------------------------------|------|

|  |      |
|--|------|
| Methane increases the explosibility of coal dust, Dec. | *120 |
|--|------|

|  |     |
|--|-----|
| Mine fire fought with dry ice, bulldozers and rock dust, J. H. Brusett, Mar. | *97 |
|--|-----|

|   |     |
|---|-----|
| Mine-fire gases with a few of their pertinent characteristics (table), Jan. | 102 |
|---|-----|

|  |      |
|--|------|
| National Safety Council's "S" award won by Russelton mine, Sept. | *138 |
|--|------|

|   |     |
|---|-----|
| New rescue station opened in Colorado, June | 160 |
|---|-----|

|  |      |
|--|------|
| Pit cover moved off in one piece, July | *122 |
|--|------|

|   |     |
|---|-----|
| Pond-Creek-Tug River Mining Institute contest won by Eastern Coal, Oct. | 143 |
|---|-----|

|  |     |
|--|-----|
| Prepare for action in face of impending disaster, Jan. | 106 |
|--|-----|

|  |      |
|--|------|
| Preventing premature blasts in electrical firing, J. V. Mather, Mar. | *112 |
|--|------|

|                                   |      |
|-----------------------------------|------|
| Safety lamp mix-ups avoided, June | *128 |
|-----------------------------------|------|

|   |     |
|---|-----|
| Safety manpower conservation (chart), May | 103 |
|---|-----|

|  |     |
|--|-----|
| Sentinels of Safety trophies winners announced, June | 106 |
|--|-----|

|                    |      |
|--------------------|------|
| Sign in mine, Mar. | *116 |
|--------------------|------|

|   |     |
|---|-----|
| Sweeping irregular roof free of methane, Oct. | 118 |
|---|-----|

|   |     |
|---|-----|
| Timbering for safety in mechanical mining, Mar. | *19 |
|---|-----|

|  |     |
|--|-----|
| Too much anxiety may injure, not help, May | 116 |
|--|-----|

|  |     |
|--|-----|
| Two ways to stop mine explosions, Jan. | 109 |
|--|-----|

|   |      |
|---|------|
| Ventilating and mining plan offered to increase safety, Richard Mette, Oct. | *100 |
|---|------|

|  |     |
|--|-----|
| What to watch in exploring old works, June | 129 |
|--|-----|

|  |     |
|--|-----|
| Wheeling Township Coal men win first-aid contest, Aug. | 159 |
|--|-----|

|   |     |
|---|-----|
| Winter air-conditioning of mines helps prevent coal-dust explosions, Nov. | 116 |
|---|-----|

|   |                    |      |
|---|--------------------|------|
| Scales—How to weigh for accuracy in mine-scale operation. | H. M. Roeser, Feb. | *114 |
|---|--------------------|------|

|                 |     |
|-----------------|-----|
| Smoke abatement | 188 |
|-----------------|-----|

|   |     |
|---|-----|
| Allegheny moves to end smoke pall, Dec. | 188 |
|---|-----|

|   |     |
|---|-----|
| Coal Producers' Committee for Smoke Abatement to be revived, Nov. | 164 |
|---|-----|

|   |     |
|---|-----|
| How steam-air jet abates engine smoke, Oct. | 149 |
|---|-----|

|  |     |
|--|-----|
| Illinois Central R. R. to halt smoke, July | 131 |
|--|-----|

|   |     |
|---|-----|
| Louisville & Nashville R. R. to minimize smoke from engines, Feb. | 153 |
|---|-----|

|  |     |
|--|-----|
| P. R. R. to apply jets to eliminate smoke, May | 142 |
|--|-----|

|  |     |
|--|-----|
| Smoke control group to survey Toledo, Dec. | 158 |
|--|-----|

#### Solid Fuels Administration

|  |     |
|--|-----|
| American coals can now be sold for export, Sept. | 142 |
|--|-----|

|   |     |
|---|-----|
| Coal situation eases; controls lifted, Nov. | 149 |
|---|-----|

|   |     |
|---|-----|
| Distribution restrictions reduced; feared coal deficit dwindles, Oct. | 142 |
|---|-----|

|  |     |
|--|-----|
| Dr. Potter resigns; SEAWA to liquidate, Dec. | 142 |
|--|-----|

|                                     |     |
|-------------------------------------|-----|
| Higher coal exports possible, Sept. | 164 |
|-------------------------------------|-----|

|  |     |
|--|-----|
| Ileks urges coal shipments to Europe, Aug. | 142 |
|--|-----|

|                                     |     |
|-------------------------------------|-----|
| More coal controls are lifted, Dec. | 176 |
|-------------------------------------|-----|

|   |     |
|---|-----|
| Program for new fuel, year stiffens control as supply wanes, Apr. | 138 |
|---|-----|

|   |     |
|---|-----|
| Restrictions lifted to facilitate output, May | 138 |
|---|-----|

|  |    |
|--|----|
| Stabilization—Coal stabilization; government's or industry's job? Jan. | 66 |
|--|----|

#### Stokers a

|          |            |
|----------|------------|
| Antimite | Bituminous |
|----------|------------|

|       |            |
|-------|------------|
| resum | Anthracite |
|-------|------------|

|        |       |
|--------|-------|
| Depart | units |
|--------|-------|

|         |        |
|---------|--------|
| Distrib | Engine |
|---------|--------|

|         |      |
|---------|------|
| Drive a | Cars |
|---------|------|

|        |           |
|--------|-----------|
| Larger | Five-year |
|--------|-----------|

|        |       |
|--------|-------|
| New at | state |
|--------|-------|

|        |        |
|--------|--------|
| New su | Four v |
|--------|--------|

|      |     |
|------|-----|
| Nov. | set |
|------|-----|

|        |     |
|--------|-----|
| 19.6 w | Ind |
|--------|-----|

|          |       |
|----------|-------|
| Sales le | Intan |
|----------|-------|

|     |      |
|-----|------|
| 156 | Apr. |
|-----|------|

|     |        |
|-----|--------|
| 144 | Modern |
|-----|--------|

|     |       |
|-----|-------|
| 144 | at ne |
|-----|-------|

|       |       |
|-------|-------|
| Strip | Sept. |
|-------|-------|

## Stokers and stoves

Anthracite prepares for tomorrow, June, \*86  
 Bituminous Coal Utilization Committee resumes stoker promotion, Oct., 172  
 Department store sells stokers, Oct., 162  
 Distribution controls over heating and cooking equipment removed, Sept., 144  
 Drive adjustment made easy, Jan., \*112  
 Large-size stokers enjoy preference, May, 162  
 New anthracite heating unit, Feb., \*99  
 New smokeless heater fueled once a week, Nov., 148  
 1946 will be record year for stokers, Nov., 160  
 Sales by months, Jan., 140, Feb., 156, Mar., 128, Apr., 150, May, 140, June, 144, July, 132, Aug., 140, Sept., 144, Oct., 144, Nov., 140, Dec., 144

## Stripping and dredging

Alabama strip mine operators must drain strip pits, Oct., 170  
 Anthracite applications for new loading units, Sept., 109  
 Engineer obtains strip lease on North Carolina tract, Dec., 160  
 Five-year trend in strip production by states (table), Aug., 102  
 Four veins stripped in 25-ft. benches to get 2,200 tons daily, R. R. Renick, Dec., \*96  
 Indiana strip mines to set 400,000 trees, Apr., 142  
 Modern washery supplements stripping at new truck mine, F. W. Richard, Sept., \*97  
 New Maumee stripper to use dragline, May, 142  
 New River stripping under way on Sewell seams outcrop, J. H. Edwards, Feb., \*109  
 Ohio governor declines to inspect stripings, Dec., 159  
 Ohio governor to push strip mining area restoration, Mar., 144  
 Ohio House rejects strip-mining measure, July  
 Ohio to plant trees on banks left behind strip-mining operations, Nov., 150  
 Pennsylvania files replies to operators' suits, Dec., 157  
 Pennsylvania to regulate strip mining, Feb., 178  
 Pond River produces 2,000 tons per day of screened coal, F. W. Richard, Mar., 174  
 Reforestation in strip mine study requested, May, 164  
 Strip Commission gets busy in Ohio, Nov., 152  
 Strip license bill in Illinois assembly, Apr., 160  
 Strip mines may be taxed, June, 137  
 Strip mining suits filed in Pennsylvania, Oct., 154  
 Strip shovel repaired by boring rig, May, \*122  
 Striping employed to start recovery of 20,000 tons per acre, Hamill Coal, J. H. Edwards, Apr., \*94  
 Striping future involves new fields and bigger equipment, Aug., \*101  
 Striping improvements mark Rimmersburg expansion, Oct., \*93  
 Striping project for Panther Valley, July, 148  
 Stripping with fewer man-days (charts), May, 105  
 Trux Traer opens Dakota Star mine, May, \*130  
 20,000 trees planted on Hudson strip land, June, 168  
 25-yd. dragline to be used by Maumee Coalfields strip mine, Apr., 154  
 West Virginia has new strip law, May, 149  
 Supplies—Supplies for higher efficiency, May, \*87  
 Worn shaker pans make good bins, Nov., \*136  
 Surveys and surveying—Keeping transits in the section helps, Nov., 128  
 Wooden triangle saves transit work, Sept., \*126

## T

## Taxation

Congress considers tax adjustment bill, July, 131  
 Illinois strip tax vetoed, Aug., 146  
 N. A. tax committee meets, Oct., 164  
 Revenue Act of 1945 signed by President, Dec., 162  
 Use of tax on Penna. bituminous, Oct., 160  
 Telephone booth, sound absorbing, July, \*124  
 Telephone mounted on door, June, \*132

## Training

High schools to have coal mining courses, Oct., 166  
 Job Relations Training course used by 46 coal companies, May, 140  
 Lehigh Valley trains men for work, Sept., 140  
 Mining taught in West Virginia vocational schools, S. T. De Journett, Apr., 97  
 Pennsylvania towns to have the schools, Oct., 156  
 Pittsburgh Coal trains supervisors to help them in their work, R. E. Charles, Apr., 144  
 Sahara Coal establishes mining scholarships, Sept., 166  
 Transportation

Anthracite applications for new loading and transporting units, Sept., \*109

Big cars complete modernization of Blaine mine, Sept., \*114  
 Car-loading dock dumps flat-bed coal trucks to two tracks, Jan., \*82  
 Car retarder adjusted with welding bead, Sept., \*130  
 Clinchfield Ray, branch lines authorized, Oct., 170  
 Colorado rules for man-trip handling, Apr., 120  
 Converting locomotive controls from trolley supply to battery operation, Oct., \*130  
 Diesel locomotives show steady gain, Dec., 184  
 Dynamic braking cuts larry car brake-shoe replacements, Jan., \*80  
 Embargo on freight movement except for war purposes, Feb., 141  
 Feeder belts electrically interlocked to prevent overloading belt collecting from them, Apr., \*128  
 Fitting facilities bleeding hydraulic lines, July, \*126  
 Gantry crane saves backaches, Aug., \*128  
 Gas turbines: coal's new railroad fuel opportunity, J. L. Yellott, Aug., \*113  
 Haulage-locomotive operation improved by better controls, B. Woodward, Jan., \*85  
 Haulage safety promoted by logic in eliminating hazards, Dec., \*110  
 Headblock and runaway switch form safety team, Apr., \*126  
 Hoist switches cars at car shop, Aug., \*130  
 Infra-red lamps keep engines warm, Jan., 108  
 Lake Erie coal terminal planned, Aug., 160  
 Larry train solves Oak Hill refuse disposal problem, R. R. Richard, Nov., \*103  
 Loader brake rigging modified for efficiency, Jan., \*110  
 Locomotive axle record proves helpful, Aug., \*130  
 Locomotive coal specifications discussed by Illinois Preparation Engineers, June, 160  
 Locomotive gives operating tests without moving, Oct., \*131  
 Locomotives of the steam turbine type recently designed, Apr., \*136  
 Locomotive rebuilt, Aug., \*132  
 Locomotives resurfaces rebuilt with stainless steel, Dec., \*132  
 Locomotive stops when operative leaves it, Sept., 120  
 Locomotive with bulldozer cleans track, Oct., \*130  
 Locomotive wrench, Jan., \*108  
 Locomotives—coil springs and padded plates keep interpoles snug, Dec., \*128  
 Motor axle bearing cap redesigned, June, \*130  
 New cars among haulage improvements at Arista, July, \*124  
 Pennsylvania R.R.'s new turbine-driven locomotive, Jan., \*124  
 Power-driven sprayer used on haulage roads, Sept., \*128  
 Prefabricated track boosts loader tonnage at Norton Mine, Lindsay Cobb, Jan., \*89  
 Rerailers carried on side of locomotive, Nov., \*128  
 Rock larry carries its own supply of compressed air for dumping operation, May, \*126  
 Serial number sticks with car, Apr., \*130  
 Shuttle-car battery boosted while working, Oct., \*124  
 Shuttle cars and belts raise efficiency at Bolair, J. H. Edwards, Aug., \*93  
 Shuttle-car endgate made removable, Aug., \*126  
 Shuttle-car gathering increases tonnage at Knox Consolidated Coal, Nov., \*88  
 Shuttle cars increase load output in pitching coal, Nyman & Hyatt, June, \*93  
 Shuttle cars and loaders speed development at Oliver, Oliver & Richard, Sept., \*92  
 Shuttle-car operation discussed at A.I.M.E. meeting, Sept., 144  
 Skid remover also cuts haulage injuries, May, \*126  
 Slides drop out automatically, Feb., \*136  
 Station for trolley tap, Feb., \*132  
 Straightening shuttle-car fenders easily done, July, \*124  
 Synthetic tire and tube maintenance, L. H. Taylor, Sept., \*104  
 Tandem locomotives at Jenkins improved by hydraulic brakes, R. L. Blake, Mar., \*80  
 Track ballast of sandstone crushed in plant, Feb., \*138  
 Transportation with less manpower (charts), May, 89  
 Trip retarder counterweight runs on hillside, Sept., \*126  
 Trolley clamps tightened by special wrench, Jan., \*112  
 Truck to carry supplies, made from car chassis, Nov., \*126  
 Turbine locomotive is a coal burner and coal hauler, Feb., \*96  
 Welded rail joints improved by back-up clips, Nov., \*124  
 Tri-County Cave Protective Assn.—Meeting urges mine cave bill, Jan., 150

## Truck mines

Modern washery supplements stripping at new truck mine, F. W. Richard, Sept., \*97  
 Poplar-Elkhorn Coal Co., organized to develop large truck mines, June, 146  
 Synthetic tire and tube maintenance, L. H. Taylor, Sept., \*104

Turbines, gas—Coal for turning, Oct., 162  
 Gas turbines; coal's new railroad fuel opportunity, J. L. Yellott, Aug., \*113

## U

## United Mine Workers

Anthracite pact approved by WLB; prices raised \$1 on domestic sizes, July, 136  
 Anthracite strike settled with pay raise, June, 137  
 Bituminous contract agreed on; some work stoppages continue, May, 129  
 Bituminous pact extended 30 days; WLB takes jurisdiction in case, Apr., \*133  
 Illinois joint board adjudicates disputes, Sept., 148  
 Lewis calls off supervisory strike until more appropriate date, Nov., 139  
 United Clerical, Technical and Supervisory Employees is part of union, May, 132  
 United Mine Workers see also Labor  
 United Nations Relief & Rehabilitation Administration to ship mining machinery to Europe, Sept., 137  
 Utilization  
 Bright outlook seen for coal utilization, July, 138  
 Coal for gas turbines studied, Oct., 162  
 Fossil resins extracted from Utah coal, Dec., 184  
 Iowa home owners prefer coal heat, Oct., 174  
 Mining in Europe: wartime coal production and utilization, H. F. Yancey, Dec., 174  
 Packaged fuel plant site selected, Feb., 174  
 Pelletizing process seen as promising, Nov., 164  
 Pigs eat coal, Oct., \*152  
 Railroad as a market for coal (e), Jan., 65  
 Ranks indoor climate with food and shelter, Nov., 146

## V

## Ventilation

All side-entry air returns through goaf, Apr., \*118  
 Drying mine fires would create incredible gages if seals were tight, Sept., 118  
 Fan change-over time cut 80 percent, Mar., \*118  
 Fire in nearby working extinguished by using bad air in old goaf, Aug., \*118  
 Good air with less man-hours (charts), May, \*99  
 Measurement of air pressures, Oct., \*116  
 New mining and ventilating plan needed to increase safety, Richard McGee, Oct., \*100  
 One-way ventilations pros and cons, Jan., \*98  
 Pittsburgh Coal ventilation plan using goaf for return, Apr., \*118  
 Portable curtain speeds ventilation control, Oct., \*134  
 Sweeping irregular roof free of methane, Oct., 118  
 Three intakes provided to one return as air bypasses to a permanent bleed-over rock falls, Mar., \*104  
 Tidal air movement, Nov., 118  
 What to watch in exploring old works, June, \*120  
 Winter air-conditioning of mines helps prevent coal-dust explosions, Nov., 116  
 Virginia Coal Operators' Association—Election of officers, June, 146

## W

War Production Board—Mining Division takes old title, Dec., 169

Waste Disposal  
 Anthracite engineers cite silt progress, June, 148  
 Anthracite men face pollution charges, Nov., 146  
 Anti-pollution bill passes Pennsylvania House, Apr., 166

## Welding

Better wheel welding achieved in hide-arc process, Oct., \*97  
 Braces minimize casting warpage during welding, Sept., \*132  
 Bumpers repaired by welding, Oct., \*126  
 Car retarder adjusted with welding bead, Sept., \*130  
 Journal boxes reconditioned by welding, Oct., \*132  
 Shaker trough support all-welded, Oct., \*132  
 Squaring the jaws of the sheave wheel clutch, May, 124  
 Welding hose carried overhead on swinging boom, Feb., \*136  
 West Virginia Coal Mining Institute  
 Election of officers, Jan., 130  
 Election of officers, Dec., 149  
 Report of meeting, Jan., \*128  
 Report of meeting, Dec., 149  
 Western Canada Bituminous Coal Operator's Association—Federal aid sought for West Canada coal, May, 156

## MINE AND COMPANY INDEX

## A

## Mine and Company Index

Alabama Power Co.  
Gorgas mine employees to have model homes, Mar. .... 142

Allegheny River Mining Co.  
Postwar plans started, May. .... 154

Alta Coal Co.  
Checking men in speeded by special facilities at Summit, July. .... \*101

American Coal Co.  
Leases No. 3 Pocahontas, July. .... 134

Amico Coal Co.  
Purchased by the Minter interests, Mar. 142

Atlantic Smokeless Coal Co.  
Controlling interest in Asco No. 1 mine purchased, July. .... 134

## B

Bart. D. A. Co.  
Sells two mines to North American Coal Corp., Mar. .... 142

Beckemeyer Coal & Mining Co.  
Scheduled to reopen July. .... 132

Bell & Zoller Coal & Mining  
Additional leases made, Jan. .... 132

Loader brake rigging modified for efficiency, Jan. .... \*110

Big Sandy-Elkhorn Collieries  
Production records broken, Mar. .... 148

Blue Diamond Coal Co.  
First car shipped, Feb. .... 148

Path Fork mine capacity increased, July. .... 146

Bond Valley Coal Co.  
9 die in gassy mine, Feb. .... 172

## C

Canadian Collieries to develop White Rapids mine, Apr. .... 140

Cherrytree Coal Co.  
Miner makes record of loading 17 tons daily, Mar. .... 140

Citizens Coal Mining Co.  
Mine A suspends, May. .... 168

Coast Fuel Co.  
Southport mine now open, June. .... \*142

Colcord Coal Co.  
Company is dissolved, Feb. .... 166

Colorado Fuel & Iron Corp.  
Frederick mine wins Governor's cup, Sept. .... 138

Officers elected, Feb. .... 168

Consolidated Coal Co.  
Stoker drive adjustment made easy, Jan. .... \*112

Consolidation Coal Co.  
Merger with Pittsburgh Coal Co. advancing, June. .... 150

Merger with Pittsburgh Coal Co., Dec. .... 162

Tandem locomotives at Jenkins improved by hydraulic brakes, R. L. Blake, Mar. .... \*80

To merge with Pittsburgh Coal Co., Mar. .... 140

Crucible Fuel Co.  
Mine collapse kills 5, Apr. .... 140

## D

D & F Coal Co.  
New breaker completed, Mar. .... 144

DePuy Coal Co.  
Organized, Feb. .... 148

Diamond Coal Mining Co.  
No. 2B mine built around previous conveyor success, J. H. Edwards, Jan. .... \*71

## E

Eastern Coal Corp.  
First-aid contest in Kentucky award, Oct. .... 146

Locomotive with bulldozer cleans track, Oct. .... \*130

Shakers at Stone operated to eliminate handling of bone, T. H. Booth, June. .... \*108

Echeta Coal Co.  
New mine running near capacity, Apr. 140

Elk Horn Coal Corp.  
Receiver named, Nov. .... 164

## F

Forsyth Carterville Coal Co.  
Purchases Sparta mine, Apr. .... 142

Freeman Coal Mining Corp.  
Modernization includes hydraulic transfer station, F. W. Richard, June. .... \*112

Power-driven sprayer used on haulage roads, Sept. .... \*128

Rebuilding returns locomotive to service, Aug. .... \*132

## G

Gallup American Coal Co.  
Gamerco mine reopened, May. .... 166

Gamerco mine to be closed, Apr. .... 142

Gifton & Fugate Coal Corp.  
Fire loss at Hickory mine, Aug. .... 164

Gimballo & Sons Coal Co.  
Cedar Canon mine leads state in safety, Apr. .... 142

Glen Alden Coal Co.  
Asks cut in assessed value, May. .... 166

Valuation for taxes reduced, June. .... 162

Greenwood mines  
Equipment installed for stripping project, July. .... 148

Gusco River Coal Co.  
New coal operation started, Jan. .... 132

Gulf Mobile & Ohio R.R.  
Sparta mine sold, Apr. .... 142

Guyan Eagle Coal Co.  
Dogs and angles on strands protect apron conveyors, Jan. .... \*114

## H

Hannil Coal Corp.  
Stripping employed to start recovery of 20,000 tons per acre, J. H. Edwards, Apr. .... \*94

Hanna Coal Co.  
Dun Glen's fire equipment always ready, Jan. .... \*114

Harlan field  
L & N Line to open new field, July. .... 152

Harlan Central Coal Co.—modified long-wall cuts top trouble and boosts efficiency, J. H. Edwards, Dec. .... \*107

Hanto Coal Co.  
Low-water indication stops pump, Feb. .... \*131

Homestead Coal Co.  
L & N builds spur track to serve company, Nov. .... 154

Hudson Coal Co.  
Air compressor's water kept from freezing by draining, Mar. .... \*120

Air hoist helps cage rails and timbers, Apr. .... \*126

Cutting cost in anthracite preparation maintenance, J. S. Johnson, Mar. .... \*83

Fan change-over time cut 80 percent, Mar. .... \*118

Headblock and runaway switch form safety team, Apr. .... \*126

New rock-disposal method saves manpower, May. .... \*126

Serial number sticks with car, Apr. .... \*139

Shakers and scrapers meet Lorree mining, manpower problems, R. R. Richard, Apr. .... \*101

Staff changes, Feb. .... 174

20,000 trees planted on strip land, June. .... 168

## I

Island Creek Co.  
Executive promoted, Feb. .... \*142

## J

Jeddo-Highland Coal Co.  
Gage measures pressure in air hose, Oct. .... \*128

Hoist switches cars at car shop, Aug. .... \*130

Inclined horses replace jacks, June. .... \*131

Machine speeds output of car sills, June. .... \*132

Mine bearings make live center for lathe, June. .... \*134

Portable metal saw rooms machine shop, July. .... \*120

Tenon machine makes better car braces, June. .... \*130

Jewell Ridge Coal Corp.  
Hard sandstone from inside crushed for ballast, Feb. .... \*138

Portal-to-portal case heard by Supreme Court, Apr. .... 152

Portal-to-portal case rehearing denied, July. .... \*140

Portal-to-portal pay upheld by Supreme Court, June. .... 144

Jones Coal Corp.  
Fire destroys breaker, Jan. .... 160

Jones, Earl J. coal development under way, Feb. .... 144

## K

Knox Consolidated Coal Corp.  
Fitting facilitates bleeding hydraulic lines, July. .... \*126

Sealed air-breaker tube walls refinished, Aug. .... \*126

Shuttle-car endgate made removable, Aug. .... \*126

Straightening shuttle-car fenders easily done, July. .... \*124

Tonnage raised by adoption of shuttle-car gathering, Nov. .... \*88

Truck to carry supplies, made from car chassis, Nov. .... \*126

Koppers Coal Div.  
All side-entry air returns through goaf, Apr. .... \*118

Glen White mine closed, July. .... 132

Loads sprinkled on the fly without waste of water, Feb. .... \*119

Service pins given to certain employees, Apr. .... 140

Staff changes, Feb. .... 144

Tenth summer camp to open, June. .... 168

Ventilation sweeps goaf and faces, Mar. .... \*104

## L

Leekie Collieries Co.  
Frederick mine tipple burns, May. .... 154

Lehigh Navigation Coal Co.  
Blasting machines repaired periodically, Nov. .... \*134

Lithograph crane controls saves confusion, Nov. .... \*133

Lamp batteries repaired at central shop, Dec. .... \*132

New aggregate plant under way, Apr. .... 164

Testing insulation strength of electrical equipment, Dec. .... \*130

Tires turned simultaneously, Dec. .... \*136

Lehigh Valley Coal Co.  
Brace minimizes casting warpage during welding, Sept. .... \*132

Cutting flame tempers chain link, Nov. .... \*132

Franklin colliery operated again, Mar. 144

Locomotive axle record proves helpful, Aug. .... \*130

Maltby colliery to be pumped, Jan. .... 132

Metal inserts hold center marks, June. .... \*130

Motor axle bearing cap redesigned, June. .... \*130

Paint aids motor installation, July. .... \*120

Pins hold split gears central-saw planing, Sept. .... \*133

Safety lamp mix-ups avoided, June. .... \*128

Scrap steel improves swivel jack, Oct. .... \*135

Shakers and belts permit Ross vein mining at Westmoreland, R. R. Richard, July. .... \*96

Telephone serves shop from shop partition, June. .... \*132

Training men for work, Sept. .... 140

Training program endorsed by Bureau of Mines, Oct. .... 156

Welding reconditions journal boxes, Oct. .... \*131

Lorain Coal & Dock Co.  
Big cars complete modernization of Blaine mine, Sept. .... \*111

Low Ash Coal Co.  
Car-loading dock dumps flat-bed coal trucks to two trucks, Jan. .... \*82

## M

M & S Coal Co.  
Officials fined for safety violations, May. .... 168

Mahan-Cheely Coal Co.  
Merges with Mahan-Edison Coal Corp., Mar. .... 158

Mallory Coal Co.  
To be operated under the name of Stollings Coal Co., Jan. .... 132

Maryland Coal & Coke Co.  
Now sales agent for the Century mine, Mar. .... 142

Maumee Collieries Co.  
New strip mine to use 25-yd. dragline, Apr. .... 154

New stripper to use dragline, May. .... 142

Mead, C. H. Coal Co.  
Compensation denied striking foremen, Nov. .... 144

Minter Fuel Co.  
Purchases Amico Coal Co., Mar. .... 142

Moss-Williams Coal Co.  
Buys Royce-Kershaw Coal Co., Apr. .... 138

## N

New River Co.  
Locomotive wrench, Jan. .... \*108

Special equipment speeds drill repairs, Apr. .... \*130

Stanaford mines purchased, Feb. .... 146

Stripping under way on Sewell seam outcrop, J. H. Edwards, Feb. .... 109

Wrench tightens clamps under guards, Jan. .... \*112

North American Coal Corp.  
Buys two mines from D. A. Bart Co., Mar. .... 142

Northern Illinois Coal Corp.  
Air-driven tools occupy special rack, Oct. .... \*136

Gantry crane saves backaches, Aug. .... \*128

Northwestern Coal Co.  
Completing new breaker, Mar. .... 144

Northwestern Illinois Coal Corp.  
Modern washery supplements stripping at new truck mine, F. W. Richard, Sept. .... \*97

Norton Coal Corp.  
Prefabricated track boosts loader tonnage, Lindsay Cobb, Jan. .... \*89

## O

Old Ben Coal Corp.  
Prepares to resume production, May. .... 138

To sink new shaft, July. .... 131

Old Mine Co.  
Leases mine of Pana Mines Corp., Nov. 158

Oldroyd Coal Co.  
Mine rebuilt, June. .... 158

New tipple construction started, Apr. .... 140

Tipple destroyed by fire, Mar. .... 150

Oliver Coal Co.  
Blocks season better underground, Sept. .... \*133

Loaders and shuttle cars speed development at new mine, Oliver & Richard, Sept. .... \*92

Portable curtain speeds ventilation control, Oct. .... \*134

Tester speeds electrical maintenance, Sept. .... \*130

Welding bead helps retarder to function, Sept. .... \*130

Wooden triangle saves transit work, Sept. .... \*126

## P

Panhandle Eastern Pipeline Co.

Receives certificate, May. .... 140

Pardee & Curtin Lumber Co.  
No waste space in oil house at Bolair, Aug. .... \*126

Shuttle cars and belts raise efficiency at Bolair. J. H. Edwards, Aug. .... \*93  
 Peabody Coal Co.  
 Majestic mine sets record, Mar. .... 126  
 Peerless Darby Coal Co.  
 Machine loading—taking top and coal raises entry output. J. H. Edwards, Oct. .... \*88  
 Pennsylvania Coal Co.  
 Employee-management forum set up, Mar. .... 146  
 Perry Coal Co.  
 Liberty mine closed, July. .... 132  
 Philadelphia & Reading Coal & Iron Co.  
 Flood quenches fire in Knickerbocker mine, Apr. .... 142  
 Four veins stripped in 25-ft. benches to get 2,200 tons daily, R. R. Richart, Dec. .... \*96  
 Larry train solves Oak Hill refuse-disposal problem. R. R. Richart, Nov. .... \*103  
 St. Nicholas mine to have two new pumping plants, July. .... 146  
 Urges miners to boost anthracite output, Nov. .... 146  
 Pittsburgh Coal Co.  
 Back-up clips improve welded rail joints, Nov. .... \*124  
 Better hinge bolt improves loader performance, Dec. .... \*138  
 Better wheel welding achieved with hidden-arc process, Oct. .... \*97  
 Blood plasma used in mine injury case, Apr. .... 142  
 Car hale jig saves time and promotes accuracy, Nov. .... \*133  
 Cleaner cheapens borehole cleaning, Feb. .... \*132  
 Coal drilling equipment made stronger, Dec. .... \*128  
 Gate in hydro-separator saves coal from refuse, Oct. .... \*128  
 Guides oiled automatically, Mar. .... 116  
 Helping the supervisor in his key job in mining, R. E. Charlton, Apr. .... \*86  
 Loader greasing changed by moving fittings, Nov. .... \*136  
 Loading machine roller rebuilt, Dec. .... \*134  
 Locomotives given operating tests without moving, Oct. .... \*134  
 Merger with Consolidation Coal Co., Dec. .... 162  
 Pushbutton-controlled switches protect hoist and car sprayer, Mar. .... 116  
 Rock drill, air and small tank eliminate pump, Nov. .... \*134  
 To fight OPA suit, Sept. .... 156  
 To merge with Consolidation Coal Co., Mar. .... 140  
 Universal holder for boring mill saves time and tools, Dec. .... \*140  
 Ventilation plan using goaf for return, Apr. .... \*118  
 Pittsburgh Consolidation Coal Co.—Merger takes effect, Dec. .... 162  
 Pocahontas Fuel Co.  
 Buys large timber tract, Apr. .... 140  
 Pond River Collieries  
 Box cut yields 2,000 tons per day, F. W. Richart, Mar. .... \*74  
 Double drill unit mounted on tractor, Sept. .... \*132  
 Poplar-Elkhorn Coal Co.  
 Company organized to develop large truck mines, June. .... 146

Puritan Coal Corp.  
 Ohio group buys company, July. .... 146  
 Thacker mines sold to Lando owners, Aug. .... 164

## R

Radium mine, Belleville, Ill.  
 To be reopened, Jan. .... 132  
 Raleigh Coal & Coke Co.  
 Welding hose carried overhead on swinging boom, Feb. .... 136  
 Raven Run Coal Co.  
 Compressed-air layout anticipates future demands, William & Smith, Aug. .... \*106  
 Republic Steel Corp.  
 Mine bearings make live center for lathe, June. .... \*134  
 New mine in Kentucky planned for complete mechanical operation, J. H. Edwards, July. .... \*86  
 Portable powder boxes made with brick walls, July. .... 126  
 Russelton mine wins first "S" award, Sept. .... \*138  
 Sectionalizing hydraulic lines a saving, May. .... 122  
 Telephone booth, sound absorbing, July. .... \*124  
 Ringersburg Coal Co.  
 Stripping improvements mark expansion program, Oct. .... \*93  
 Rocky Mountain Fuel Co.  
 Industrial mine abandoned, July. .... 132  
 Royce-Kershaw Coal Co.  
 Bought by Moss-Williams Coal Co., Apr. .... 138

## S

Sahara Coal Co.  
 Establishes mining scholarship, Sept. .... 166  
 Schuyler Coal Co.  
 Buys farm tract, Aug. .... 166  
 Sentry Coal Mining Co.  
 Boring rig spares repairs to strip shovel, May. .... \*122  
 Sizemore Mining Co.  
 Conveyor efficiency raised by self-propelled drives, M. J. Reed, Jan. .... \*92  
 Standard Mining & Converters Corp.  
 Ships first coal, Aug. .... 164  
 Stonega Coke & Coal  
 Coal-for-Victory awards won, Aug. .... \*138  
 Work starts on new Harlan highway, Aug. .... 146  
 Susquehanna Collieries Co.  
 Dines personnel, May. .... 168  
 Dynamic braking cuts brake-shoe replacements on larry car, Jan. .... \*80

## T

Tennessee Coal, Iron & Railroad Co.  
 New mine in Concord to open, Oct. .... 144  
 Tennessee Products Co.  
 Reel's Cove mine opened, July. .... 140  
 Tri-State Coal Co.  
 Keystone mine to be closed, Apr. .... 140  
 Truxa-Traer Coal Co.  
 Buys riverfront tract, Aug. .... 164  
 Dakota Star mine opened, May. .... \*130

Slurry plant uses vibrating screen for dewatering, Mar. .... \*95

## U

Union Colliery Co.  
 Construction work proceeding, Nov. .... 158  
 Skid remover also cuts haulage injuries, May. .... \*126  
 Special pipe solves bad water condition, Aug. .... 128  
 To close Kathleen shaft and open new coal field, Oct. .... 144  
 United Electric Coal Co.  
 New strip shovel, June. .... \*146  
 Union Pacific Coal Co.  
 Cut-off saw made safe, Dec. .... \*132  
 Electronic relay signals fan trouble, Dec. .... \*138  
 Hydraulic ram plays big role in shops, Nov. .... \*130  
 Mine to be named Geo. B. Pryde, Jan. .... 132  
 Modern shops meet maintenance need, Nov. .... \*97  
 New trough support to last longer, Oct. .... \*132  
 Rerailers carried on side of locomotive, Nov. .... \*128  
 32-volt control cures braking trouble, Oct. .... \*130  
 Two steel cables support borehole cable, Dec. .... \*136  
 Welded patches prolong bumper life, Oct. .... \*126  
 Worm pans make good bins, Nov. .... \*136  
 United States Coal & Coke Co.—Opens new coal operation, Dec. .... \*146  
 Utah Fuel Co.  
 Explosion kills 23, June. .... 164  
 Shuttle cars increase loader output in pitching coal, Nyman & Hyatt, June. .... \*93

## W

West Canadian Collieries, Ltd.  
 Mine fire fought with dry ice, bulldozers and rock dust, J. H. Brusset, Mar. .... \*97  
 West Kentucky Coal Co.  
 Belt system serves North Diamond shuttle-car mine, R. R. Richart, Apr. .... \*112  
 Dummy-making time shortened, Apr. .... \*130  
 East Diamond mine begins operations, Nov. .... 158  
 Feeder belts can't overload main belt, Apr. .... \*128  
 Sign labels and directs, Mar. .... \*126  
 Weyanoke Coal & Coke Co.  
 Motor of portable dump runs both hoist and truck, July. .... \*128  
 New cars among haulage improvements at Arista, July. .... \*124  
 Pit cover conveniently moved off in one piece, July. .... \*122  
 Power washer for shop uses discarded parts, July. .... \*128  
 Three speeds and cooling added to drill press, Sept. .... \*134  
 Trip retarder counterweight runs on hillside, Sept. .... \*126  
 Wheeling Township Coal Co.  
 Win first-aid contest, Aug. .... 150  
 Wyatt Coal Co.  
 Slides drop out automatically, Feb. .... \*136

## AUTHOR'S INDEX

**A**DAMS, W. W., More coal mined in 1948 with fewer accidents, Feb. .... 197  
**A**nderson, R. L. & W. H. Young, Sales of mechanical loading and cleaning equipment, Feb. .... 104  
 Tons-per-man record proves worth of mechanical coal loading, June. .... 101

**B**ARLOW, Paul M., Good grounding protects men and equipment in mining, Jan. .... 94  
**B**lake, R. L., Hydraulic brakes improve tandem locomotives at Jenkins, Mar. .... 89  
**B**ooth, Thomas H., Shakers at Stone operated to eliminate handling of bone, June. .... 108  
**B**russet, J. H., Mine fire fought with dry ice, bulldozers and rock dust, Mar. .... 97

**C**HALIER, R. E., Helping the supervisor in his key job in mining, Apr. .... 86  
**C**obb, Lindsay, Prefabricated track boosts loader tonnage at Norton Mine, Jan. .... 89  
**C**ree, J. C., Power use in hand loading and mechanical mining, Jan. .... 79

**D**EJOURNETT, S. T., Today's school helps turn out the miners of tomorrow, Apr. .... 97  
**D**ickerson, J. H., Designing a mine for maximum efficiency in production, Feb. .... 121

**E**DWARDS, J. H., Diamond 2B built around previous conveyor success, Jan. .... 71  
 Machine loading—taking top and coal raises entry output, Oct. .... 88  
 Modified longwall cuts top trouble and boosts efficiency, Dec. .... 107  
 New Republic mine produces and prepares coal mechanically, July. .... 86  
 New River stripping under way on 75-mile Sewell seam outcrop, Feb. .... 109  
 Shuttle cars and belts raise efficiency at Bolair, Aug. .... 93  
 Stripping employed to start recovery of 20,000 tons per acre, Apr. .... 94

**F**OSTER, J. J., Employee relations call for increasingly careful handling, Jan. .... 76

**G**IBSON, D. L., How to clean electric motors, windings and insulation, Oct. .... 111  
**G**iven, Ivan A., Contract negotiation: problem and opportunity for coal, Feb. .... 92  
**G**iven, Ivan A. & J. R. Sutphen, Can coal mining guarantee annual wages? Aug. .... 86

**H**EIGIS, H. E., Carbon-dioxide frost circumvented, Jan. .... 100  
**H**oover, D. S., Protecting bearings against wear induced by shaft currents, Aug. .... 115  
**H**yatt, Wesley & Fritz Nyman, Shuttle cars increase loader output in pitching coal, June. .... 93

**J**OHNSON, John S., Cutting cost in anthracite preparation maintenance, Mar. .... 83

**M**ATHER, Joseph V., Preventing premature blasts in electrical firing, Mar. .... 112  
**M**cGee, Richard, Increased safety goal in new mining and ventilating plan, Oct. .... 100  
**M**cNeil, Jno. C., Machine methods promote efficiency in mine accounting, Nov. .... 109  
 Monthly cost data made more usable in consolidated report, July. .... 104

**N**YMAN, Fritz & Wesley Hyatt, Shuttle cars increase loader output in pitching coal, June. .... 93

**O**LIVER, R. C., R. R. Richart, Loaders and shuttle cars speed development at Oliver, Sept. .... 92

**P**OTTER, C. J., Coal in Europe: serious shortage reflects production lag, Oct. .... 102

**R**EEED, M. K., Conveyor efficiency raised by making drives self-propelling, Jan. .... 92  
**R**ichart, Fred W., Box cut yields 2,000 tons per day at Pond River, Mar. .... 74  
 Design and materials help cut cost of preparation maintenance, June. .... 96  
 Freeman modernization includes transfer station, June. .... 112

**G**etting results in maintaining coal-preparation plants pt 1, Oct. .... 105  
 pt 2, Nov. .... 90, pt 3, Dec. .... 101  
 Modern washery supplements stripping at new truck mine, Sept. .... 97  
 Setting up maintenance for maximum preparation results, Aug. .... 108  
**R**ichart, Ralph R., Belt system serves North Diamond shuttle-car mine, Apr. .... 112  
 Four veins stripped in 25 ft. benches to get 2,200 tons daily, Dec. .... 96  
 Larry train solves Oak Hill refuse-disposal problem, Nov. .... 103  
 Good face voltage assures efficient production at low cost, Apr. .... 106  
 Shakers and belts permit Ross-vein mining at Westmoreland, July. .... 96  
 Shakers and scrapers meet Loree mining manpower problems, Apr. .... 101  
**R**ichart, R. B. & R. C. Oliver, Loaders and shuttle cars speed development at Oliver, Sept. .... 92  
**R**oeser, Harry M., How to weigh for accuracy in mine-scale operation, Feb. .... 111

**S**MITH, Gordon E. & W. B. Williams, Compressed-air layout anticipates future demands, Aug. .... 106  
**S**utphen, James R. & L. A. Given, Can coal mining guarantee annual wages? Aug. .... 86

**T**AYLOR, L. H., How to maintain synthetic tires and tubes in coal mining, Sept. .... 104

**W**ILLIAMS, Walter B. & G. E. Smith, Compressed-air layout anticipates future demands, Aug. .... 106  
**W**illiams, Whiting, How to gain miner cooperation, Dec. .... 86  
**W**oodward, B., Better controls improve haulage-locomotive operation, Jan. .... 85

**Y**ANCEY, H. F., Mining in Europe: wartime coal production and utilization, Dec. .... 115  
**Y**ellott, J. L., Gas turbine: coal's new railroad fuel opportunity, Aug. .... 113  
**Y**oung, W. H. & R. L. Anderson, Sales of mechanical loading and cleaning equipment, Feb. .... 104  
 Tons-per-man record proves worth of mechanical coal loading, June. .... 101